



PTO/SB/08B (Modified)

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	09/008,947
Filing Date	01/20/1998
First Named Inventor	Mills
Group Art Unit	1754-1745
Examiner Name	Kalafut
Attorney Docket Number	

Sheet	1	12
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
A	58	R. L. Mills, "Classical Quantum Mechanics," Physics Essays, Vol. 16, No. 4, December, (2003), pp. 433-498. (Web Publication Date: May 23, 2002.)	
L R	60	R. L. Mills, J. Sankar, A. Voigt, J. He, B. Dhandapani, "Synthesis of HDLC Films from Solid Carbon," Journal of Materials Science, in press. (Web Publication Date: May 3, 2002.)	
e A D Y	77	J. Phillips, R. L. Mills, X. Chen, "Water Bath Calorimetric Study of Excess Heat in 'Resonance Transfer' Plasmas," J. Appl. Phys., Vol. 96, No. 6, (2004) 3095-3102. (Web Publication Date: June 16, 2003.)	
	80	R. L. Mills, "The Fallacy of Feynman's Argument on the Stability of the Hydrogen Atom According to Quantum Mechanics," Annales de la Fondation Louis de Broglie, submitted. (Web Publication Date: Jan. 27, 2003.)	
O F	81	R. Mills, P. Ray, B. Dhandapani, W. Good, P. Jansson, M. Nansteel, J. He, A. Voigt, "Spectroscopic and NMR Identification of Novel Hydride Ions in Fractional Quantum Energy States Formed by an Exothermic Reaction of Atomic Hydrogen with Certain Catalysts," European Physical Journal: Applied Physics, 28, (2004), 83-104. (Web Publication Date: Feb. 21, 2003.)	
R	88	R. Mills, J. Sankar, A. Voigt, J. He, P. Ray, B. Dhandapani, "Role of Atomic Hydrogen Density and Energy in Low Power CVD Synthesis of Diamond Films," Thin Solid Films, 478, (2005) 77-90. (Web Publication Date: Dec. 22, 2003.)	
e	94	R. L. Mills, "The Nature of the Chemical Bond Revisited and an Alternative Maxwellian Approach," Physics Essays, in press. (Web Publication Date: Aug. 6, 2003.)	
C O	96	J. Phillips, C.K. Chen, R. L. Mills, "Evidence of the Production of Hot Hydrogen Atoms in RF Plasmas by Catalytic Reactions Between Hydrogen and Oxygen Species," Spectrochimica Acta Part B: Atomic Spectroscopy, submitted. (Web Publication Date: Sept. 12, 2003.)	
R	97	R. L. Mills, P. Ray, B. Dhandapani, "Evidence of an Energy Transfer Reaction Between Atomic Hydrogen and Argon II or Helium II as the Source of Excessively Hot H Atoms in RF Plasmas," Journal of Plasma Physics, in press. (Web Publication Date: Sept. 26, 2003.)	
D	98	R. L. Mills, Y. Lu, J. He, M. Nansteel, P. Ray, X. Chen, A. Voigt, B. Dhandapani, "Spectral Identification of New States of Hydrogen," New Journal of Chemistry, submitted. (Web Publication Date: Nov. 18, 2003.)	

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		Group Art Unit	1754-1745	
		Examiner Name	Kalafut	
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Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AL	100	R. Mills, B. Dhandapani, J. He, "Highly Stable Amorphous Silicon Hydride from a Helium Plasma Reaction," Materials Chemistry and Physics, submitted. (Web Publication Date: Nov. 17, 2003.)	
REAR	101	R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, B. Dhandapani, "Energetic Catalyst Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Chemistry of Solid, Liquid, and Gaseous Fuels, 227th American Chemical Society National Meeting, March 28-April 1, 2004, Anaheim, CA.	
Q	102	R. L. Mills, "Exact Classical Quantum Mechanical Solutions for One-through Twenty Electron Atoms," Phys. Essays, submitted. (Web Publication Date: April 22, 2004.)	
OF	103	R. L. Mills, Dhandapani, W. Good, J. He, "New States of Hydrogen Isolated from K₂CO₃ Electrolysis Gases," Electrochim. Acta, submitted. (Web Publication Date: April 28, 2004.)	
Relat	104	R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, W. Good, B. Dhandapani, "Energetic Catalyst Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Advances in Hydrogen Energy, 228th American Chemical Society National Meeting, August 22-26, 2004, Philadelphia, PA.	
OK	113	R. Mills, "Physical Solutions of the Nature of the Atom, Photon, and Their Interactions to Form Excited and Predicted Hydrino States", New Journal of Physics, submitted. (NO DATE)	
OK	114	R. Mills, K. Akhtar, B. Dhandapani, "Tests of Features of Field-Acceleration Models for the Extraordinary Selective H Balmer α Broadening in Certain Hydrogen Mixed Plasmas," Journal of Applied Physics, submitted. (web publication June 24, 2005, www.blacklightpower.com).	


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A L R R A D Y O R R E C O R D OK OK	105	J. Phillips, C. K. Chen, R. L. Mills, "Evidence of Catalytic Production of Hot Hydrogen in RF-Generated Hydrogen/Argon Plasmas," J. Appl. Physics, submitted. (Web Publication Date: September 7, 2004.)	
	106	R. L. Mills, "Exact Classical Quantum Mechanical Solution for Atomic Helium which Predicts Conjugate Parameters from a Unique Solution for the First Time," Foundations of Science, submitted. (Web Publication Date: October 28, 2004.)	
	107	R. L. Mills, "Maxwell's Equations and QED: Which is Fact and Which is Fiction," Physica Scripta, submitted. (Web Publication Date: October 28, 2004.)	
	108	R. L. Mills, J. He, M. Nansteel, B. Dhandapani, "Catalysis of Atomic Hydrogen to New Hydrides as a New Power Source," International Journal of Global Energy Issues (IJGEI), Special Edition in Energy System, submitted. (Web Publication Date: April 4, 2005.)	
	109	R. L. Mills, M. Nansteel, J. He, B. Dhandapani, "Low Voltage EUV and Visible Light Source Due to Catalysis of Atomic Hydrogen," J. Plasma Physics, submitted. (Web Publication Date: April 15, 2005.)	
	110	R. L. Mills, J. He, Z. Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen to Novel Hydrides as a New Power Source," Prepr. Pap. Am. Chem. Soc., Div. Fuel Chem. 2005, 50(2). (Web Publication Date: April 22, 2005.)	
	111	R. L. Mills, J. He, Z. Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen Novel Hydrogen Species H ⁺ (1/4) and H ₂ (1/4) as a New Power Source," Thermochemica, submitted. (Web Publication Date: May 6, 2005.)	
OK	112	R. L. Mills, J. He, Y. Lu, Z. M. Nansteel, Chang, B. Dhandapani, "Comprehensive Identification and Potential Applications of New States of Hydrogen," Central European Journal of Physics submitted. (Web Publication Date: May 9, 2005.)	


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		Group Art Unit	4754-1745		
Examiner Name	Kalafut				
Sheet	4	of	12	Attorney Docket Number	

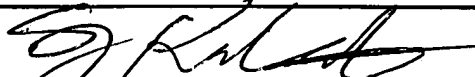
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AL		GRITCHLEY et al., "Energy shifts and forbidden transitions in H₂ due to electronic g/u symmetry breaking", <i>Molecular Physics</i>, 2003, Vol. 101, Nos. 4-5, pp. 651-664, Taylor & Francis Ltd.	
RE		GAMBUS et al., "Spectroscopic Study of Low-Pressure Water Plasmas and Their Reactions with Liquid Hydrocarbons", <i>Energy & Fuels</i>, 2002, 16, pp. 172-176, American Chemical Society	
AB		CVETANOVIC et al., "Excessive Balmer line broadening in a plane cathode abnormal glow discharge in hydrogen", <i>Journal of Applied Physics</i>, 97, 033302 (2005), American Institute of Physics	
Y		AKATSUKA et al., "Stationary population inversion of hydrogen in an arc-heated magnetically trapped expanding hydrogen-helium plasma jet", <i>Physical Review E</i>, 49, 2, pp. 1534-1544, February, 1994, The American Physical Society	
OF		MURAKAMI et al., "Chemisorption of hydrogen into a graphite-potassium intercalation compound C₈K studied by means of positron annihilation", <i>J. Chem. Phys.</i>, 62 (10), May 15, 1995, American Institute of Physics	
RE		AHN, "Hydrogen Storage in Metal-Modified Single-Walled Carbon Nanotubes", Division of Engineering and Applied Science, California Institute of Technology, September 15, 2001	
CO		DUAN et al., "Numerical calculation of energies of some excited states in a helium atom", <i>Eur. Phys. J., D</i> 19, (2002), pp. 9-12, Societa Italiana di Fisica, Springer-Verlag 2002	
R		NIXON et al., "Formation and structure of the potassium graphites", <i>Brit. J. Appl. Phys., Ser. 2</i>, Vol. 1, pp. 291-299, Great Britain, 2002	
D		ZELLINGER, "Experiment and the foundations of quantum physics", <i>Reviews of Modern Physics</i>, Vol 71, No. 2, pp. S288-S297, Centenary 1999, The American Physical Society	

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Examiner Name	Kalafut				
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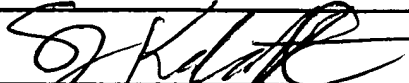
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A C		COTTON et al., "Complexes of Cyclo-2-Oxacarbenes. I. A Spontaneous Cyclization to Form a Complex of 2-Oxacyclopentylidene", <i>Journal of the American Chemical Society</i>, 93:11, pp. 2672-2676, June 2, 1971	
R E		LINDSAY et al., "A remeasurement of the 2.4μm spectrum of J = H₂ pairs in a parahydrogen crystal", <i>Journal of Molecular Spectroscopy</i>, 218. Pp. 131-133, 2003	
A D Y		JUAREZ et al., "Photoelectron angular distributions of rotationally resolved states in para-H₂⁺: A closer to the dynamics of molecular photoionisation", The University of Manchester Atomic, Molecular & Laser Manipulation Group, pp. 1-5	
		WEISSTEIN, "Ortho-Para Hydrogen", http://scienceworld.wolfram.com/physics/Ortho-ParaHydrogen.html	
S F		SMITH, "Infrared spectra of BO₂ in the alkali halides. I. Potassium and rubidium halides", <i>Spectrochimica Acta</i>, Vol. 30A, pp. 875-882, Pergamon Press, 1974	
R E		LEITCH et al., "Raman Spectroscopy of Hydrogen Molecules in Crystalline Silicon", <i>Physical Review Letters</i>, 81:2, pp. 421-424, July 13, 1998, The American Physical Society	
C O R		CHEN et al., "Key to Understanding Interstitial H₂ in Si", <i>Physical Review Letters</i>, 88:10, pp. 105507-1 - 105507-4, March 11, 2002, The American Physical Society	
		CHEN et al., "Rotation of Molecular Hydrogen in Si: Unambiguous Identification of Ortho-H₂ and Para-D₂", <i>Physical Review Letters</i>, 88:24, pp. 245503-1 - 245503-4, June 17, 2002, The American Physical Society	
		LAVROV et al., "Ortho and Para Interstitial H₂ in Silicon", <i>Physical Review Letters</i>, 89:21, pp. 215501-1 - 215501-4, November 18, 2002, The American Physical Society	
		STAVOLA et al., "Interstitial H₂ in Si: are all problems solved?", <i>Physica B</i>, pp. 58-66, 2006 Elsevier B.V.	

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		Group Art Unit	1754 / 1745		
		Examiner Name	Kalafut		
Sheet	6	of	12	Attorney Docket Number	

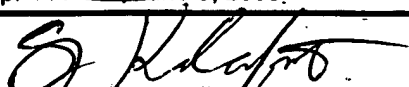
OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
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A L R E A D Y O F R E C O R D		MILLS et al., "Catalysis of Atomic Hydrogen to Novel Hydrides as a New Power Source", pp. 1-8, BlackLight Power, Inc.	
		DECIUS et al., "Force Constants of the Metaborate Ion in Alkali Halides", The Journal of Chemical Physics, 56:10, pp. 5189-5190, May 15, 1972	
		"Infrared spectra of the metaborate ion in alkali halide solid solution", Research Notes, pp. 600-602	
		SMITH, "Anharmonic force field of the metaborate ion in alkali halides", The Journal of Chemical physics, 58:11, pp. 4776-4778, June 1, 1973	
		HISATSUNE et al., "Infrared Spectra of Metaborate Monomer and Trimer Ions", Inorganic Chemistry, pp. 168-174	
		JONES et al., "Force Constants of Nickel Carbonyl from Vibrational Spectra of Isotopic Species", The Journal of Chemical Physics, 48:6, pp. 2663-2670, March 15, 1968	
		SMITH, "Infrared spectra of BO₂ in the alkali halides-I. Potassium and rubidium halides", Spectrochimica Acta, 30A, pp. 875-882, 1974, Pergamon Press	
		SCHOENFELDER et al., "Kinetics of Thermal Decomposition of TiH₂", J. Vac. Sci. Technol., 10:5, pp. 862-870, Sept./Oct. 1973	
		"Emission Characteristics for Scandium Type Dispenser Cathodes", HeatWave Labs, Inc., TB-119, May 24, 2001, Spectra-Mat, Inc.	
	"Emission Characteristics of 'M Type' Dispenser Cathodes", HeatWave Labs, Inc., TB-117, May 24, 2001, Spectra-Mat, Inc.		
	"Practical Aspects of Modern Dispenser Cathodes", Microwave Journal, September, 1979		

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		Application Number	09/440,694 008,947		
		Filing Date	07/07/1998		
		First Named Inventor	Mills		
		Group Art Unit	1754		
		Examiner Name	Kalafut		
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A		"Standard Series Barium Tungsten Dispenser Cathodes", HeatWave Labs, Inc., TB-198, July 29, 2002, Spectra-Mat, Inc.		
R		ABATE et al., "Optimization and enhancement of H⁻ ions in a magnetized sheet plasma", Review of Scientific Instruments, 71:10, pp. 3689-3695, October 2000, American Institute of Physics		
A		CHABERT et al., "On the influence of the gas velocity on dissociation degree and gas temperature in a flowing microwave hydrogen discharge", Journal of Applied Physics, 84:1, pp. 161-167, July 1, 1998, American Institute of Physics		
		GORDON et al., "Energy coupling efficiency of a hydrogen microwave plasma reactor", Journal of Applied Physics, 89:3, pp. 1544-1549, February 1, 2001, American Institute of Physics		
O		RADOVANOV et al., "Time-resolved Balmer-alpha emission from fast hydrogen atoms in low pressure, radio-frequency discharges in hydrogen", Appl. Phys. Lett., 66:20, pp. 2637-2639, May 15, 1995		
R		QJUROVIC et al., "Hydrogen Balmer-alpha line shapes for hydrogen-argon mixtures in a low-pressure rf discharge", J. Appl. Phys., 74:11, pp. 6558-6565, December 1, 1993, American Institute of Physics		
e		KONJEVIC, "Plasma Broadening and Shifting of Non-Hydrogenic Spectral Lines: Present Status and Applications", Physics Reports, 315, pp. 339-401, 1999, Elsevier		
O		BENESCH et al., "Line shapes of atomic hydrogen in hollow-cathode discharges", Optics Letters, 9:8, pp. 338-340, August 1984, Optical Society of America		
R		AYERS, et al., "Shapes of atomic-hydrogen lines produced at a cathode surface", Physical Review A, 37:1, pp. 194-200, January 1, 1988, The American Physical Society		
		ADAMOV, et al., "Doppler Spectroscopy of Hydrogen and Deuterium Balmer Alpha Line in an Abnormal Glow Discharge", IEEE Transactions on Plasma Science, 31:3, pp. 444-454, June 3, 2003		
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A L	<	JOVICEVIC et al., "Excessive Balmer line broadcasting in microwave induced discharges", <i>Journal of Applied Physics</i>, 95:1, pp. 24-29, January 1, 2004, American Institute of Physics	
R e		DJUROVIC et al., "Hydrogen Balmer alpha line shapes for hydrogen-argon mixtures in a low-pressure rf discharge", <i>J. Appl. Phys.</i>, 74:11, pp. 6558-6565, December 1, 1993, American Institute of Physics	
A D		MAYO, "Thermalization and Energy Distribution in Cold Laboratory Plasmas: Comments on the Possibility of Mono-Energetic Species", April 20, 2004	
Y		VIDENOVIC et al., "Spectroscopic Investigations of a Cathode Fall Region of the Grimm-type glow discharge", <i>Spectrochimica Acta Part B</i>, 51, pp. 1707-1731, 1996	
O F		SARBEAU et al., "Spectroscopic investigation of energetic atoms in a DC hydrogen-flow discharge", pp. 1168-1174, 1990 IOP Publishing Ltd.	
R e c		KONJEVIC et al., "Emission Spectroscopy of the Cathode Fall Region of an Analytical-Glow", <i>J. Phys. IV France</i>, 7, pp. C4-247-C4-256, October 1997	
O		LIFSHTZ et al., "Resonance absorption measurements of atom concentrations in reacting gas mixtures. I. Shapes of H and D Lyman-α lines from microwave sources", <i>J. Chem. Phys.</i>, 70:12, pp. 5607-5613, June 15, 1979, American Institute of Physics	
R		KURAICA et al., "Line shapes of atomic hydrogen in a plane-cathode abnormal glow discharge", <i>Physical Review A</i>, 46:7, pp. 4429-4432, October 1, 1992, The American Physical Society	
D		KURAICA et al., "On the Atomic Hydrogen Line Shapes in a Plane-Cathode Obstructed Glow Discharge", <i>Physica Scripta</i>, 50, pp. 487-492, 1994	

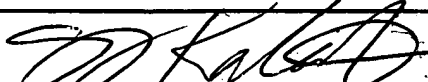
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AL		OLTHOFF et al., "Studies of Ion Kinetic Energy Distributions in the Gaseous Electronics Conference RF Reference Cell", <i>Journal of Research of the National Institute of Standards and Technology</i>, 100-4, pp. 383-400, July-August 1995	
R		RADOVANOVA et al., "Ion kinetic energy distributions and Balmer-alpha (H_α) excitation in Ar-H₂ radio-frequency discharges", <i>J. Appl. Phys.</i>, 78:2, pp. 746-756, July 15, 1995	
CA		DJUROVIC et al., "Hydrogen Balmer alpha line shapes for hydrogen-argon mixtures in a low-pressure rf discharge", <i>J. Appl. Phys.</i>, 74:11, pp. 6558-6565, December 1, 1993, American Institute of Physics	
Y		ALEXEFF et al., "Collisionless Ion-Wave Propagation and the Determination of the Compression Coefficient of Plasma Electrons", <i>Physical Review Letters</i>, 15:7, pp. 286-288, August 16, 1999	
OF		ARATA et al., "Reproducible 'Cold' Fusion Reaction Using a Complex Cathode", <i>Fusion Technology</i>, 22, pp. 287-295, September 1992	
REC		BURKHOLDER et al., "Reactions of boron atoms with molecular oxygen. Infrared spectra of BO, BO₂, B₂O₂, B₂O₃, and BO₂ in solid argon", <i>J. Chem. Phys.</i>, 95:12, pp. 8697-8709, December 15, 1991	
OR		SPURGIN, "Direct Conversion of the Random Thermal Energy of a Plasma Into Electrical Energy", Master's Thesis, The University of South Florida, June 1972	
D			

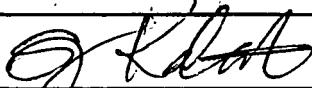
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Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		D. Luggenholscher, U. Czarnetzki, and H.F. Döbele Institut für Laser- und Plasmaphysik, Universität Essen, Germany, "Investigations on Electric Field Distributions in a Microwave Discharge in Hydrogen"	ALREADY OF RECORD
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OK		Eng-Kie Souw, "Plasma Density Measurement in an Imperfect Microwave Cavity", J. Appl. Phys. 61, 1761, 1987.	(NO MONTH)
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OK		Raoul Nakhmanson, "The Ghostly Solution of the Quantum Paradoxes and it's Experimental Verification", from "Frontiers of Fundamental Physics", Bartone & Selleri, Plenum Press, NY 1994, < http://arxiv.org/ftp/physics/papers/0103/0103006.pdf >	
		Donald A. McQuarrie, "Quantum Chemistry", University Science Books, CA, 1983, relevant parts of Chapters 4, 6, and 8.	NOT FOUND

Examiner Signature		Date Considered	1/29/06
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	09/08,947		
		Filing Date	01/20/1998		
		First Named Inventor	Mills		
		Group Art Unit	1754-745		
Examiner Name	Kalafut				
Sheet	11	of	12	Attorney Docket Number	

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OK		E. Kovacevic, I. Stefanovic, J. Berndt, and J. Winter, "The Dynamic Response of the Plasma on the Dust Formation in Ar/C ² H ² Rf Discharges." < http://www.rcpig.uni-greifswald.de/proceedings/data/kovacevic-1 > (NO DATE)	
ALREADY OF RECORD		N. Cvetanovic, m.M. Kuraica, N. Konjevic, "Excessive Balmer Line Broadening in a Plane Cathode Abnormal Glow Discharge in Hydrogen", J. Appl. Phys. 97, 033302 (2005)	ALSO CITED ON PAGE 4
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OK		Notes on David Peat, "Einstein's Moon: Bell's Theorem and the Curious Quest for Quantum Reality," History and Philosophy of Science-Fall, 1997-Dr. Ess, < www.drury.edu/ess/philsci/bell.html > (NO MONTH)	
OK		Physics 200-04 Course, "Pauli Spin Matrices", < http://axion.physics.ubc.ca/200-04/paulispin.pdf >. (NO DATE)	
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		Application Number	09/008,947		
		Filing Date	01/20/1998		
		First Named Inventor	Mills		
		Group Art Unit	4754-1745		
		Examiner Name	Kalafut		
Sheet	12	of	12	Attorney Docket Number	

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OK		Quantum Physics 301, Paradoxes and Interpretation", http://www.teach.phy.bris.ac.uk/Level30100/CourseMaterials/paradoxes.pdf (NO DATE)	
OK		The Internet Encyclopedia of Philosophy, "Logical Positivism", http://iep.utm.edu/logpos.htm (NO DATE)	
		H. G. Kuhn, F. R. S., "Atomic Spectra", Longmans, Green & Co., Ltd., London/Harlow 1969 (2nd ed.)	NOT FOUND
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		Eric Krieg, "Hydrinos: A State Below the Ground State" http://www.freeenergies.org/bl/bwt/z/hydrino/hydrino.htm	ALREADY OF RECORD
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		Mills, R., "Physical Solutions of the Nature of the Atom, Photon, and Their Interactions to Form Excited and Predicted Hydrino States," (web publication June 9, 2004 at www.blacklightpower.com)	NOT FOUND

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